



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

נס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
 ELEVEN BROADWAY / NEW YORK, NY 10004 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 20, 2018

This is to certify that the following product(s) prepared by

Vantage Performance Materials, 3938 Porett Drive, Gurnee, IL 60031

are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: HODAG2040 K • HODAG 2040 K	OUV4-9CC81CF	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: Hydrite P12 K • Hydrite P12 K	OUV4-B627A4D	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: LAMCHEM PE 124 NGM • LAMCHEM PE 124 NGM (Chometz-free)	OUV3-E8DB0DA	Pareve	Ⓢ Symbol required.
Brand: LAMCHEM PHYTO ESTER			

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2019

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: LAMCHEM PHYTO ESTER (continued)			
• LAMCHEM PHYTO ESTER	OUV3-440DAFC	Pareve	Ⓢ Symbol required.
• LAMCHEM PHYTO ESTER	OUV4-D0BD5C6	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: LIPOCOL S-20			
• LIPOCOL S-20	OUV3-8885D13	Pareve	Ⓢ Symbol required.
• LIPOCOL S-20	OUV4-E8DC40C	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: Liposorb L-80			
• Liposorb L-80	OUV3-C8080A4	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lumisorb			
• Lumisorb PSMO-20 FGK	OUW3-A85F66C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumisorb PSMO-20 FGK	OUW4-CA01A71	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
Brand: Lumisorb PSML-20 KPH			
• LUMISORB PSML-20 KPH	OUV3-1B50275	Pareve	Ⓢ Symbol required.
Brand: Lumisorb PSMO-20 K FCC			

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lumisorb PSMO-20 K FCC (continued) • PSMO20KFCC LUMISORB PSMO-20 K FCC	OUW3-82C2A2E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
Brand: Lumisorb SML • Lumisorb SML	OUW3-182B67B	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
Brand: Lumisorb SMO NGM • Lumisorb SMO NGM	OUW3-C02D02E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lumisorb STO MO • Lumisorb STO MO	OUW3-CE16DC9	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
Brand: Lumsorb PSTO-20 MO • Lumisorb PSTO-20 MO	OUW3-A564E75	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
Brand: Lumulse 2025-R • LUMULSE 2025-R	OUV4-AF6DD24	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumulse 2025-R	OUV3-F8165C2	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lumulse 22-O			
• Lumulse 22-O	OUV3-FCD025E	Pareve	Ⓢ Symbol required.
Brand: Lumulse CO-30			
• LUMULSE CO-30	OUV3-830D61E	Pareve	Ⓢ Symbol required.
• LUMULSE CO-30	OUV4-12CD20F	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: Lumulse PPG 3000			
• LUMULSE PPG 3000	Ouw3-DAE2D80	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumulse PPG 3000	OUV3-B09249A	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lumulse Tda 690			
• LUMULSE TDA 690	OUV3-5E06847	Pareve	Ⓢ Symbol required.
• LUMULSE TDA 690	OUV4-550BF7F	Pareve	Certified when bulk shipped in OU approved carriers.
Brand: Lumulse TDA 890			
• Lumulse TDA 890	OUV3-16E8026	Pareve	Ⓢ Symbol required.
Brand: Vantage			
• BIO-SOFT N1-5	OUV4-YJDSCDT	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• BIO-SOFT N1-7	OUV4-QRZCD81	Pareve	Certified when bulk shipped in OU approved carriers.
• BIO-SOFT N23-5	OUV4-AGVUZMO	Pareve	Certified when bulk shipped in OU approved carriers.
• FLORASOLVS JOJOBA PEG-120	O UW3-SACE85N	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• FLORASOLVS JOJOBA PEG-120	O UW4-SAVO0VS	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• FLORASOLVS MACADAMIA-16	Ouw3-KHFmRL9	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• FLORASOLVS SUNFLOWER-10	Ouv3-TPAMYBK	Pareve	Ⓢ Symbol required.
• Hodag 2040 K	Ouv3-4056528	Pareve	Ⓢ Symbol required.
• HODAG AFM-8F K	Ouv3-A52A159	Pareve	Ⓢ Symbol required.
• HODAG AFM-8F K	Ouv4-70B0C8A	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• HODAG CB-6 KP	OUW3-EE9FA40	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• HODAG CB-6 KP	OUW4-B8E73B3	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• HODAG F-1 K	OUV3-85C1983	Pareve	Ⓢ Symbol required.
• HODAG F-1 K	OUV4-9B951EA	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• HODAG FD-62 K	OUW3-550F909	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• HODAG FD-62 K	OUW4-46A4BDF	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• HODAG FD-82 K	OUV3-F540B2B	Pareve	Ⓢ Symbol required.
• HODAG FD-82 K	OUV4-8E30E01	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• HODAG K-60 K	OUV3-BB6C626	Pareve	Ⓢ Symbol required.
• HODAG K-60 K	OUV4-3670162	Pareve	Certified when bulk shipped in OU approved carriers.
• HODAG MR-216 K	OUV3-E9FD28F	Pareve	Ⓢ Symbol required.
• HODAG MR-216 K	OUV4-DCC8028	Pareve	Certified when bulk shipped in OU approved carriers.
• Hodag PX-653	OUV3-7D0DB3A	Pareve	Ⓢ Symbol required.
• HODAG R-252 KP	OUV3-A21905F	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• HODAG S-35 K	OUV3-5AAB878	Pareve	Ⓢ Symbol required.
• HODAG S-35 K	OUV4-384B0AD	Pareve	Certified when bulk shipped in OU approved carriers.
• HODAG S-35 K NGM	OUV3-F8EBC5S	Pareve	Ⓢ Symbol required.
• HODAG S-35 K NGM	OUV4-V6OJSL1	Pareve	Certified when bulk shipped in OU approved carriers.
• LAMCHEM PE-108 K	O UW3-A73F49A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Lamchem PE-109KP	Ouw3-3723A87	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LAMCHEM PE-130 K	Ouv3-064229C	Pareve	Ⓢ Symbol required.
• LAMCHEM PE-130 K	Ouv4-6F2DFB5	Pareve	Certified when bulk shipped in OU approved carriers.
• Lamchem Phyto Ester	Ouv3-E7C6FDD	Pareve	Ⓢ Symbol required.
• LAMCHEM PMD K	Ouv3-75949F2	Pareve	Ⓢ Symbol required.
• LAMCHEM PMD K	Ouv4-C5A74F7	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LIPOCOL C-20	OUV3-0BB7A82	Pareve	Ⓢ Symbol required.
• LIPOPEG 100-S	OUV4-5CC925E	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMISORB PSML-20 K	Ouw3-4FDCDF7	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSML-20 K	Ouw4-383F338	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSML-20 NF	OUV3-262FCAC	Pareve	Ⓢ Symbol required.
• LUMISORB PSML-20 NF	OUV4-268C900	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMISORB PSML20 NGM	Ouw3-1DC60C8	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSML20 NGM	Ouw4-0DE3E06	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSML-20LC	Ouv2-C6567EE	Pareve	Symbol not required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMO-20 K	Ouw3-27954C9	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSMO-20 K	Ouw4-1D90E38	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSMO-20 K LM	Ouv3-F7AF616	Pareve	Ⓢ Symbol required.
• LUMISORB PSMO-20 K LM	Ouv4-4CF80CC	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMO-20 NF	OUV3-575CA7A	Pareve	Ⓢ Symbol required.
• LUMISORB PSMO-20 NF	OUV4-933C6F0	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumisorb PSMO-20 NGM	O UW3-2C6510E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumisorb PSMO-20 NGM	O UW4-10A2BC9	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMO-5 K	OUW3-4CEBA29	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSMO-5 K	OUW4-A75A9C4	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2019



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

נס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
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December 20, 2018

Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMS-20 K	Ouw3-C225522	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSMS-20 K	Ouw4-ED178FA	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSMS-20 K SP	Ouv3-E2D4CB2	Pareve	Ⓢ Symbol required.
• LUMISORB PSMS-20 K SP	Ouv4-01C18AD	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMS-20 LK	Ouw3-9D81731	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSMS-20 LK	Ouw4-33DD44B	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSMS-20 LPV K	Ouv3-E50ABFB	Pareve	Ⓢ Symbol required.
• LUMISORB PSMS-20 NF	Ouv3-D70B93B	Pareve	Ⓢ Symbol required.
• LUMISORB PSMS-20 NF	Ouv4-D159098	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSMS-20 NGM	Ouw3-E99FF66	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSMS-20 NGM	Ouw4-334E8F0	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSMS-4 K	Ouv3-D679D95	Pareve	Ⓢ Symbol required.
• LUMISORB PSMS-4 K	Ouv4-1F882E5	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Lumisorb PSTO-20 HM	Ouw3-BE2FA7A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumisorb PSTO-20 K	Ouv3-A0E8E24	Pareve	Ⓢ Symbol required.
• Lumisorb PSTO-20 K	Ouv4-3B882A2	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumisorb PSTO-20 LM	Ouv3-BA0B3AC	Pareve	Ⓢ Symbol required.
• Lumisorb PSTO-20 LM	Ouv4-694CAA0	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB PSTS-20 K	OUW3-9BF2B17	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB PSTS-20 K	OUW4-463B639	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB PSTT-20 LM	OUV3-28BCE56	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB SML K	Ouw3-6F31E5E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB SML K	Ouw4-D906AEE	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB SML NGM	Ouw3-D426CDC	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB SMO	Ouv3-E0A576B	Pareve	Ⓢ Symbol required.

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Brand: Vantage (continued)			
• LUMISORB SMO K	OUW2-E5CBE6E	Pareve	Symbol not required. Certified for Passover and year-round use.
• LUMISORB SMO K	OUW3-A75F4DD	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB SMO K	OUW4-C3374F0	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMISORB SMO K ALKOX	OUW3-D7E04EF	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB SMO NF	OUV4-06A75AE	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMISORB SMO NG LW	O UW3-649746E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB SMS KP	O UW3-BC677C1	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB SMS KP	O UW4-1797B1B	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Lumisorb SMS NGM	OUW3-2F2A6BA	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumisorb STOB	OUW3-4665055	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB STS K	OUW3-19E7190	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMISORB STS K	OUW4-7E5AE81	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMISORB STT	OUV3-BC68C7A	Pareve	Ⓢ Symbol required.
• LUMISORB STT	OUV4-DEFB252	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumulse 10101-L	Ouw3-6333B53	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumulse 10101-L	Ouw4-9BDF743	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE 1061-L	OUV3-E90830F	Pareve	Ⓢ Symbol required.
• LUMULSE 1061-L	OUV4-01296D6	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE 1061-L	Ouw3-AAE029B	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE 1062-L	Ouw3-4A3D7FC	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE 1064 L	OUV3-NWV0KUE	Pareve	Ⓢ Symbol required.
• LUMULSE 1064 L	OUV4-4DJVGQW	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumulse 4017-R	OUV2-81237E7	Pareve	Symbol not required.
• LUMULSE 40-O K	OUV3-7CC50F8	Pareve	Ⓢ Symbol required.
• LUMULSE 40-O K	OUV4-5FF3014	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE 40-S K	OUV3-E091369	Pareve	Ⓢ Symbol required.
• LUMULSE 40-S K	OUV4-B4A9C86	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE 42-O K	Ouw3-2029C54	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE 42-O K	Ouw4-89C2DBF	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE 42-T	OUV3-602B1AA	Pareve	Ⓢ Symbol required.
• LUMULSE 42-T	OUV4-3BFB475	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE 602-S K	OUV3-0D68109	Pareve	Ⓢ Symbol required.
• LUMULSE 602-S K	OUV4-7B35DFC	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE 60-T K	OUV3-6C0E5CE	Pareve	Ⓢ Symbol required.
• LUMULSE 60-T K	OUV4-A6134CE	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE 62-O K	Ouw3-8D47E77	Pareve/Passover	Ⓢ-P Symbol required.
• LUMULSE 62-T K	Ouv3-1379868	Pareve	Ⓢ Symbol required.
• LUMULSE 62-T K	Ouv4-16F6A53	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumulse C-20	Ouv3-19CF3C1	Pareve	Ⓢ Symbol required.
• LUMULSE CC-33 K	Ouv3-29BFA79	Pareve	Ⓢ Symbol required.
• LUMULSE CC-33 K	Ouv4-19F7174	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE CC-3K	Ouv3-5A24DCC	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE CN-20 K	OUV3-A9986C8	Pareve	Ⓢ Symbol required.
• LUMULSE CN-20 K	OUV4-EAC8261	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE CN-20 K	Ouw3-463B797	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Lumulse CN-30	OUV3-8C0E276	Pareve	Ⓢ Symbol required.
• LUMULSE CN-35 K	OUV3-229A8D0	Pareve	Ⓢ Symbol required.
• LUMULSE CN-35 K	OUV4-E4C243C	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Lumulse CN-40 K	OUV3-E115485	Pareve	Ⓢ Symbol required.
• LUMULSE CO-25	OUV3-E5FC27C	Pareve	Ⓢ Symbol required.
• LUMULSE CO-25	OUV4-12E7D5D	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE CO-36	OUV3-MB7UYW8	Pareve	Ⓢ Symbol required.
• LUMULSE CO-36	OUV4-M8J1A4K	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE CO-40	OUV3-23CBB2A	Pareve	Ⓢ Symbol required.
• LUMULSE CO-40	OUV4-00DC73C	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE CO-5	OUV3-E06F9CB	Pareve	Ⓢ Symbol required.
• LUMULSE CO-5	OUV4-A0D5443	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE EP-EF	OUV3-A50C775	Pareve	Ⓢ Symbol required.

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LETTER OF KOSHER CERTIFICATION

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UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
ELEVEN BROADWAY / NEW YORK, NY 10004 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 20, 2018

Vantage Performance Materials (continued)

This is to certify that the following product(s) prepared by this company are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE GDS NGM	OUV3-59580F2	Pareve	Ⓢ Symbol required.
• LUMULSE GDS NGM	OUV4-JTRUM29	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GML K	OUV3-13CED3E	Pareve	Ⓢ Symbol required.
• LUMULSE GML K	OUV4-BC6CA30	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GMO K	OUV3-7E8A084	Pareve	Ⓢ Symbol required.
• LUMULSE GMO K	OUV4-D80B7EF	Pareve	Certified when bulk shipped in OU approved carriers.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2019

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE GMO NGM	Ouw3-CAF4302	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE GMO-300 K	Ouv3-5EC96A4	Pareve	Ⓢ Symbol required.
• LUMULSE GMO-300 K	Ouv4-706DE34	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GMO-60 NGM	Ouw3-D63C934	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE GMR K	OUV3-B9E8700	Pareve	Ⓢ Symbol required.
• LUMULSE GMR K	OUV4-447E16A	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GMS K	OUV3-D7BF77D	Pareve	Ⓢ Symbol required.
• LUMULSE GMS K	OUV4-347AD0D	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GMS-D K	OUV3-7E2C588	Pareve	Ⓢ Symbol required.
• LUMULSE GMS-D K	OUV4-0FAFCE6	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE GMS-WD K	OUV3-1D5B2BD	Pareve	Ⓢ Symbol required.
• LUMULSE GMS-WD K	OUV4-9DCE682	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE GMT K	OUV3-F4356E2	Pareve	Ⓢ Symbol required.
• LUMULSE GMT K	OUV4-0605302	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE HCO-16	OUV3-267A902	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE HCO-25	OUV3-03696AE	Pareve	Ⓢ Symbol required.
• LUMULSE HCO-25	OUV4-A9FB6A1	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE HCO-40	OUV3-35063D5	Pareve	Ⓢ Symbol required.
• LUMULSE HCO-40	OUV4-CB46D73	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE HCO-50	OUV3-932D0A9	Pareve	Ⓢ Symbol required.
• LUMULSE HCO-60	OUV3-F51CEE6	Pareve	Ⓢ Symbol required.
• LUMULSE L-7	OUV3-7E68B21	Pareve	Ⓢ Symbol required.
• LUMULSE NP 12	OUV2-76D5E53	Pareve	Symbol not required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE NP-9	OUV3-049B987	Pareve	Ⓢ Symbol required.
• LUMULSE NP-9	OUV4-EFBE09F	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PEG 1450 K	OUV3-CBD624A	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 1450 K	OUV4-5EFFACB	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PEG 1450 NF	OUV3-496D7EA	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 1450 NF/FCC	OUV3-F1AD355	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PEG 200	OUV2-7B1399C	Pareve	Symbol not required.
• LUMULSE PEG 200	OUV3-9A209D5	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 200	OUV4-3304D61	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PEG 300	OUV3-6744213	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 300	OUV4-1A2CYFY	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PEG 300 NF	OUV3-F2CFA87	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 300 NF/FCC	OUV3-E937A33	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PEG 400	OUW3-9B51C8A	Pareve/Passover	Ⓢ-P Symbol required.
• LUMULSE PEG 400	OUW4-0019E75	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMULSE PEG 400 NF/FCC	OUV3-493485C	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 400 NF/FCC	OUV4-4E62AC1	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PEG 600	OUV3-A771432	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PEG 600 NF/FCC	Ouw4-B4257E6	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMULSE PEG 600-NF/FCC	Ouw3-46CA2CC	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PEG 8000	Ouv3-815AE55	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 8000	Ouv4-E17A304	Pareve	Certified when bulk shipped in OU approved carriers.
• Lumulse PEG 8000 NF	Ouv3-49965B2	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PEG 9000	OUV3-8A34AB3	Pareve	Ⓢ Symbol required.
• LUMULSE PEG 9000	OUV4-51452DB	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PGME K	OUV3-C9663C0	Pareve	Ⓢ Symbol required.
• LUMULSE PGMS K	OUV3-D2BF6B0	Pareve	Ⓢ Symbol required.
• LUMULSE PGMS K	OUV4-D4008E6	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PGO K	OUV3-9C6BD86	Pareve	Ⓢ Symbol required.
• LUMULSE PGO K	OUV4-A6F18AA	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PGO-104 K	OUV3-A806FB4	Pareve	Ⓢ Symbol required.
• LUMULSE PGO-104 K	OUV4-976D6D4	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE PGO-3 K	OUV3-0D57BAD	Pareve	Ⓢ Symbol required.
• LUMULSE PGO-3 K	OUV4-AA40FAE	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE POE (100) MS	OUV3-A0D2D75	Pareve	Ⓢ Symbol required.
• LUMULSE POE (100) MS	OUV4-FDA9057	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE POE (12) Glycerine	OUV3-91DA899	Pareve	Ⓢ Symbol required.
• LUMULSE POE (12) Glycerine	OUV4-96C10D1	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE POE (15) Glycerine	OUV3-8B667A1	Pareve	Ⓢ Symbol required.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE POE (20) GMS K	OUV3-19159F3	Pareve	Ⓢ Symbol required.
• LUMULSE POE (20) GMS K	OUV4-794C90E	Pareve	Certified when bulk shipped in OU approved carriers.
• LUMULSE POE (26) Glycerine	OUV3-D1C21BE	Pareve	Ⓢ Symbol required.
• LUMULSE POE (26) Glycerine	OUV4-11295B7	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE POE (40) MS KP	Ouw3-07C4D81	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE POE (40) MS KP	Ouw4-4FB7389	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMULSE POE 7 GML	Ouv3-CE5BB1E	Pareve	Ⓢ Symbol required.
• LUMULSE POE 7 GML	Ouv4-D17BF4B	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Lumulse PPG 1000 K	OUW3-514848B	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PPG 2000 K (Passover)	OUW3-DBB657A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PPG 3000 K	OUW3-148079F	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PPG 3000 K	OUW4-EFE6A25	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PPG 4000 K	OUW3-SSAGJE0	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PPG 4000 K	OUW4-JKUTK0K	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMULSE PPG 425K	OUW4-3FDGAKL	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• LUMULSE PPG-2000 K	OUW3-C834E9E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• LUMULSE PPG-2000 K	OUW4-DDFE5B0	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• LUMULSE Q 1720	OUV3-AD476A0	Pareve	Ⓢ Symbol required.
• LUMULSE Q 1720	OUV3-IC1VHCU	Pareve	Ⓢ Symbol required.
• LUMULSE Q 1720	OUV4-PW7YETP	Pareve	Certified when bulk shipped in OU approved carriers.

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Vantage Performance Materials (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• Macol 300 Polyol Unneutralized	Ouw3-2101970	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• MACOL NP 12	Ouv2-8091AEA	Pareve	Symbol not required.
• Mapeg 600 DO FG	Ouv3-96D3B2E	Pareve	Ⓢ Symbol required.
• Mazol PG 3	Ouw3-469AE8C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Mazol PG 3	Ouw4-00F3ECB	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• NINOL COMF-N	Ouv3-F2E468B	Pareve	Ⓢ Symbol required.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2019

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ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

נס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
 ELEVEN BROADWAY / NEW YORK, NY 10004 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 20, 2018

Vantage Performance Materials (continued)

This is to certify that the following product(s) prepared by this company are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• NINOL M10	OUV3-2DAD2BA	Pareve	Ⓢ Symbol required.
• OLEOCAL C-102 K	OUV3-BF7876E	Pareve	Ⓢ Symbol required.
• OLEOCAL C-102 K	OUV4-43D49E4	Pareve	Certified when bulk shipped in OU approved carriers.
• Oleocal C-104 K	OUV3-225FB45	Pareve	Ⓢ Symbol required.
• OLEOCAL IVO-114 K	OUV3-9DA4F21	Pareve	Ⓢ Symbol required.
• OLEOCAL IVO-114 K	OUV4-C3B97D4	Pareve	Certified when bulk shipped in OU approved carriers.

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

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December 20, 2018

Vantage Performance Materials (continued)

This is to certify that the following product(s) prepared by this company are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Vantage (continued)			
• PPG425K	OUW2-A8231F8	Pareve	Symbol not required. Certified for Passover and year-round use.
• PPG425K	OUW3-2C5247B	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2019

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